

정윤석

정윤석은 서울캠퍼스 [공과대학 에너지공학과](#) 교수이자, [EESL](#) 실장을 겸임하고 있다.

에너지공학과 홈페이지 참고(2019.10.)

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목차

- [1 학력](#)
- [2 경력](#)
- [3 연구관심분야](#)
- [4 주요연구과제](#)
- [5 주요논문](#)
- [6 저서](#)
- [7 수상](#)
- [8 언론 활동](#)

학력

- 2001- 2008 Ph.D. in School of Chemical and Biological Engineering, Seoul National University, Rep. of Korea Thesis: “Improvement of Cycle Performance and Thermo-electrochemical Activation of Li-alloy-based Materials as Anode for Lithium Secondary Batteries”
- 1997-2001 B.S. in School of Chemical and Biological Engineering, Seoul National University, Rep. of Korea

경력

- Mar. 2018-present Associate Professor in Department of Energy Engineering, Hanyang University, Korea
- Mar. 2016-Feb. 2018 Associate Professor in School of Energy and Chemical Engineering, Ulsan National Institute of Science and Technology (UNIST), Korea
- Nov. 2011-Feb. 2016 Assistant Professor in School of Energy and Chemical Engineering, Ulsan National Institute of Science and Technology (UNIST), Korea
- Oct. 2009-Sept. 2011 Post-doc Researcher in Center for Transportation Technologies and Systems, National Renewable Energy Laboratory, USA
- Apr. 2009-Sept. 2009 Post-doc Researcher in Electrochemical Energy Laboratory & Materials Science and Engineering Program, The University of Texas at Austin, USA
- Jun. 2008-Mar. 2009 Post-doc Researcher in Department of Mechanical Engineering, University of Colorado Boulder, USA

연구관심분야

- Batteries
 1. A. Lithium-ion batteries
 2. B. Sodium-ion batteries
- Solid-State Batteries
 1. A. Superionic conductors (solid electrolytes): Li-ion & Na-ion conductors
- Atomic Layer Deposition for Energy Storage Applications
- Other Electrochemical Energy Storage Systems (e.g., Mg-ion batteries)
- Other Devices for Electrochemical Energy Conversion & Storage (fuel cell, EDLC)

주요연구과제

주요논문

- 1. Kern Ho Park, Dae Yang Oh, Young Eun Choi, Young Jin Nam, Lili Han, Ju-Young Kim, Huolin Xin, Feng Lin, Seung M. Oh*, Yoon Seok Jung*“Solution-processable glass LiI-Li₄SnS₄ superionic conductors for all-solid-state Li-ion batteries”*Adv. Mater.* 2016, 28, 1874.
- 2. Abhik Banerjee, Kern-Ho Park, Jongwook W. Heo, Young Jin Nam, Chang Ki Moon, Seung M. Oh, Seung-Tae Hong*, Yoon Seok Jung*“Na₃SbS₄: Solution-Processable Na Superionic Conductor for All-Solid-State Na-Ion Batteries”*Angew. Chem. Int. Ed.* 2016, 55, 9634.
- 3. Dong Hyeon Kim, Dae Yang Oh, Kern Ho Park, Young Eun Choi, Young Jin Nam, Han Ah Lee, Sang Min Lee, Yoon Seok Jung*“Infiltration of Solution-Processable Solid Electrolytes into Conventional Li-Ion-Battery Electrodes for All-Solid-State Li-Ion Batteries”*Nano Lett.* 2017, 17, 3013.
- 4. Young Jin Nam, Sung-Ju Cho, Dae Yang Oh, Jun-Muk Lim, Sung Youb Kim, Jun Ho Song, Young-Gi Lee, Sang-Young Lee*, Yoon Seok Jung*“Bendable and Thin Sulfide Solid Electrolyte Film: A New Electrolyte Opportunity for Free-Standing and Stackable High-Energy All-Solid-State Lithium-Ion Batteries”*Nano Lett.* 2015, 15, 3317.
- 5. Dae Yang Oh, Young Jin Nam, Kern Ho Park, Sung-Ju Cho, Yun Kyeong Kim, Young-Gi Lee, Sang-Young Lee, Yoon Seok Jung*“Excellent Compatibility of Solvate Ionic Liquids with Sulfide Solid Electrolytes: Toward Favorable Ionic Contacts in Bulk-Type All-Solid-State Lithium-Ion Batteries” *Adv. Energy Mater.* 2015, 5, 1500865.

저서

수상

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